# SCIENTIFIC.

# FARM NOTES.

The utility of wire rope transmission ated at a long distance from water powers by the wire rope. A few days ago, on a trip through Nebraska, we noticed a rope stretching for nearly a mile from a water power to a mill that had recently been built adjoining a railroad, the owners finding it much more to their advantage to have it the sector of the there, with the switching privileges afforded, than at the dam. The ex-pense of hauling the flour which is be practicable to wean the colt at four

Dr. Henry J. Buck, writing to the Lancet, says: "I have used this drug for more than twenty years—I may say almost daily—and many of my patients will not travel without a bottle of the 'magic lotion,' as they call it. I find the simplest and most efficacious way of applying it is to soak a large handful of the crushed pods in half a pint of hot water for an hour, then strain, and bottle for use. A teaspoon-ful of eau-de-cologne added will help to keep the solution, or it can be well boiled after preparing. I then have it applied to the affected parts on a piece of linen folded three or four times, or on a lint, and covered with gutta percha tissue or dry flannel. In this way the lotion may be kept on for hours without vesicabing, and in many cases the skin is hardly reddened. The stinging and burning sensation produced by the capsium lotion is, after a few minutes. welcomed by the sufferer, so magically does it often remove the rheumatic or neuralgic pain for which it is being applied. In acute torticollis a cure is often speedily obtained by covering the side affected with the application. In any form of neuralgia, rheumatism, subacute gout, pleurodynia, and such like, it will be found most useful, and may be reapplied over and and over again during the day and night without any fear of vesication."

M. N. Varren finds that when the metal magnesium is heated in a current of ammonia thoroughly dry, and keeping the temperature below a red heat, it combines with the gas without changing much in appearance, though its chemical properties are much modified; for instance, it will not melt below a bright red heat, and burns, when red

THE PROPER CARE OF A COLT.-We has become widely recognized. Not will start with the suckling at the day only among the rugged bills and moun- of its birth, and presume that it is of tains of the East and West where good parentage, both sire and dam, that streams go rushing down through it is sound and able to stand and walk caverns and rocky steeps, where no within fifteen minutes after it breathes. locations for mills or factories are At the age of a week most farmers afforded, is this means of transmission | come to work the dam and let the suckof precious power appreciated, but it is | ling follow around as best he can, and so convenient to use that we find on the prairies of the West mills being oper- being then of sufficient age to wean, the ated at a long distance from water dam has performed a good summer's

thus saved to them will very soon pay months, we certainly prefer six, and for the system of power transmission. now comes the most important period of the entire five years of the colt's growth, and if starved or stunted the first winter it never fully recovers. Not only the size, but the whole frame of the animal is injured, never to be regained.

The colt should be fed on plenty of good, c'ean hay, plenty of water at all times, and we would give half and halt of ground oats and wheat bran twice a day, about two quarts at a mess. We give this dry, but if scalded and then cooled it will be better. A well-to-do farmer told me once this would be too much; I think he was right for the first week or two, but certainly not for the cold winter days, nor the spring either. I asked him what damage it would do; his answer was too rapid a growth. He had previously told me that he would treat a colt as he would a boy. I asked him if he ever knew too big a growth of boy, but to this there was no answer. The colt should have a warm place to protect himself from cold weather and storms, a bed of dry straw or dust to sleep upon, or to lie down at pleasure; he must not be confined to the stable, but have a yard; or, better still, an open field to run in; in no case should he be allowed to stand on a hard flcor.

SMUT IN WHEAT .- Smut in wheat was once a great cause of loss and complaint, and it was found that the smut increased when smutty seed was used. I found by making a strong brine with blue vitriol dissolved in it, putting it in a tub large enough to hold a tight basket in which the seed wheat was placed -the wheat stirred and skimmed, and then raised out of the brine and allowed to drain, when it was poured out or put in bags and so remained twelve to twenty-four hours, and then sown in the usual manner. I never found this to fail as a remedy in wheat. The hot, with violent decrepitations or small explosions. If the current of ammonia is continued, and the metal in this form heated to bright redness, it is gradually converted into an orange yel-intermediation of this, I poured my corn on the gradually converted into an orange yel-low substance which is permanent. This new product dissolves in acids, and the solution contains ammonia. This new product dissolves in acta, and the solution contains ammonia. When fragments of magnesium which have been kept at a dull red heat for have been kept at a dull red heat for much less smut than in former years. THE "GENERAL PURPOSE COW."-This long-mooted question is still receiving attention. One writer-who evidently favors the Holsteins -- says it is a well known fact that if you want A rafting pin appears to be a very to breed trotters you must employ sires simple thing and of trifling importance, and dams with trotting pedigrees. If but it is not so inconsequential after you want good cows for milk, you must all, when the number used annually is breed from animals having a good milk taken into consideration, and the pedigree, and the same is true in regard amount of hardwood timber consumed to butter and beef. Now, if we can in their production is understood. The breed a good butter cow, a good milk Tittabawassee and other boom com- cow, and a cow that will make good panies in Michigan use millions of these beef, why can we not, by combining little and simple devices, one pin being required to every log "tied out" by them; and the firms producing them use up whole "train loads" of logs in their manufacture. They are simply a wedgeshared piece of mend with a general purpose cow? The Holstein strongly than can be found in any oth-er breed of cattle now extant.



ONE ENJOYS Both the method and results when Syrup of Figs is taken; it is pleasant and refreshing to the taste, and acts gently yet promptly on the Kidneys, Liver and Bowels, cleanses the sys-tem effectually, dispels colds, head-aches and fevers and cures habitual constipation. Syrup of Figs is the only remedy of its kind ever produced, pleasing to the taste and ac-ceptable to the stomach, prompt in its action and truly beneficial in its effects, prepared only from the most healthy and agreeable substances, its many excellent qualities com-mend it to all and have made it

the most popular remedy known. Syrup of Figs is for sale in 500 and \$1 bottles by all leading drug-gists. Any reliable druggist who may not have it on hand will proeure it promptly for any one who wishes to try it. Do not accept any substitute.

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# HOUSEHOLD.

MACARONI. - Break the macaroni in pleces an inch long. Boil one-haif hour and drain; add one pint of cream, one

pint of dried apples, cut, one-half pint of sweet milk, two teaspoonfuls of bak-ing powder and one tablespoonful of butter or lard. Use flowr sufficient to make into small biscuits, and drop into boiling water and boil quickly till the apples are done. Cut the apples into small bits with scissors, and soak into warm water before making. Eat with cream sauce flavored with nutmer. cream sauce flavored with nutmeg.

CHICKEN FIE.-Singe and parboil a till quite tender. Uncover when mearly done and let the water boil away till reduced one-half. Line a large, deep pan with biscuit dough made very short and out. rolled about an inch thick, and put in the chicken cut into finer pieces, with butter, salt, pepper, a dredging of flour, 6 per Cent. and their own gravy. Cover and bake till the upper crust is brown. Serve with mashed potato and cranberry sauce.

A ROAST HAM .- Take a nice little ham which has been pickled but not smoked. Parboil in water to cover for an hour, throwing in a bay leaf and a few corns of black pepper and allspice. Transfer to the oven, bake for two hours, basting freely with a little of the liquor from the pot, or with a little sugar dissolved in vinegar or sherry wine. Strew with bread crumbs at the beginning of the last half hour, and brown nicely.

BROILED SHAVINGS .- Shave from a fine, lean ham, as you would cut dried beef, the required amount of very thin slices. Put these on a gridlron over a clear fire, and broll rather crispy until the edges curl. Serve heaped in the centre of a platter with a wall of mashed potatoes around them. Or sift your potatoes through a colander upon the platter, and sprinkle the shavings, lightly buttered, over the top.

APPLE FRITTERS.-Pare two large apples, cut them in slices half an inch thick; core them with a round cutter; put them in a dish and pour brandy over them, let them lie for two hours; make a thick batter, using two eggs; have clean lard, and make it quite hot; fry two at a time, a nice light brown; put them on the back of a sieve on paper, sift pounded sugar over them, glaze them with a shovel or salamander; dish on a napkin.

DRIED LIMA BEAN SOUP .- Soak

VEGETABLE SOUP. -- Wash thoroughly a lettuce, with two or three handfuls of sorrel, cabbage or spinach, then shred into small pieces, and put over the fire, with two ounces of butter, well-beaten egg, season with butter, salt and a little pepper. Stir over a clear fire until it thickens, and serve To this add one quart of hot stock, and for at least ten minutes, turning over

simmer for one hour, only letting it boil up at the last. Then add four yolks of eggs, and return to the fire, DRIED AFFLE DUMPLINGS. - One taking care the soup does not boil after pint of dried apples, cut, one-half pint the eggs have been added. Stir in a

square loaf; spread the slices with a anchovy paste. Pound some cod roes lightly in a mortar, and make into sandwiches between the savory bread pair of chickens, cut them up and cook till quite tender. Uncover when nearly teaspoonful of mayonnaise sauce on each sandwich 1s a great improvement, but they are very palatable with-

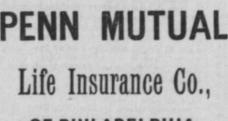
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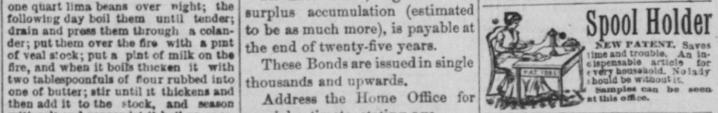
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ammonia, it often happens that their surface becomes dark yellow and shines like gold. The exact nature of this golden magnesium has not yet been made out.

wedge-shaped plece of wood with sufficient of the center of the wedge re-moved to admit the insertion of a small sized rope, so that when they are drived with the insertion of a small sized rope, so that when they are meadow: 12 pounds of timothy, 5 pounds driven into the center of each log they cover the rope and hold it firm. When these little devices are made and de- sened. stroyed annually.

and steel; and from experiments made, Russet. it is said that no other material is capable of taking hold of the fiber of iron and steel so readily and firmly as this, In China, soapstone is largely used in preserving structures built of sandstone and other stones liable to crumthe obelisks in that country, composed of stone liable to atmospheric deterioration, has been the means of preserv-ing them intact for hundreds of years.

Electrified Waz .- Some curlous electrical phenomena were lately observed (according to a writer in the Chemische Zeitung) in a stearin and ceresin manufactory in Italy. One evening four vats of white ceresin (which is a paraffin or white ceresh (which is a parama got from ozokerit), containing about 500 kg. each, were being stirred to cool. When the point of solidification was nearly reached, the electric light of the place accidentally went out; and, to the surprise and alarm of the rather ignorant workmen, the mass of ceresin was observed to give pale sparks.

A beet sugar manufactory, with a A beet sugar manufactory, with a capacity of 400 tons a day, is said to be almost completed at Grand Island, Neb. The beet has sixteen per cent of sugar, and farmers realize \$60 per acre at \$4 per ton for the root. The diffu-sion process of extracting the saccha-rine principle is used. In a fourteen battery circuit it is claimed that the remarkable result of 99-6 per cent of the sugar (an be extracted. the sugar can be extracted.

of Italian rye grass,5 pounds of meadow cover the rope and hold it firm. When the logs thus fastened in strings reach top, 3 pounds of rough-stalked meadow their destination, a slight blow breaks grass, 6 pounds of medium clover. If the pin, loosens the rope, and permits the logs to be handled separately. It will thus be perceived that millions of

In the catalogue of the American Poattention to the unappreciated uses and preservative qualities of soap-stone, a material, he says, which possesses what 33 for Maiden's Blush, 30 for Olden-Put dishe may be regarded as extraordinary qual-ities in withstanding atmospheric influ-ences, those, especially, which have so much to do with the corrosion of iron for Baldwin, Jonathan and Roxbury

It is said that the soil around an old tree, especially a dead one, is unfavorable to the growth of a young one-probably because the soll is exhausted of some important food element, which ble from the effect of the atmosphere; may have caused the death of the old and the covering with powdered soap- tree. If a young tree is set in the place stone in the form of paint, on some of of an old one it is best to remove a large thrive.

> As a rule, it is true economy to produce and manufacture everything as near as possible to the place of its consumption. The man who grows on the farm all he consumes on it saves double transportation-the hauling home what he buys and the hauling to market what he sells to pay for it. These two items of cost may make all the difference between successful and unsuccessful farming.

Wherever weeds grow luxuriantly the ground is usually fertile, and such ground should be made to produce some kind of a crop. At this season millet or Hungarian grass should be sown on such land.

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FOR CHILBLAINS .- Any one who suffers from chilblains will be glad to try the following remedy recommended by a writer in Arthur's Home Magazine: "I made a strong solution of white oak bark, as hot as I could bear, and bathed my feet every night before retiring. It made a perfect cure. I had been troubled so much that I used to dread the cold weather on that account; my feet would fester and be so swollen and sore that I could not wear mological Society votes from the differ- shoes. Now I have had no chilblains A writer in a London journal calls ent States were given as follows for var- since I applied this remedy, a good many

> Put dishes, tumblers and other glass articles into a kettle, cover them entirely with cold water and put the kettle where it will soon boil. When it has boiled a few minutes set it aside covered close. When the water is cold take out the glass. This process will harden the articles so that they will not be so easily broken.

COD ROES WITH TARTAR SAUCE .-Pick the cod roes clean of any skin, cut them in bits the size of an egg. Make a pyramid of them in the centre of the dish, squeeze over them a little lemon portion of the old soil and replace it juice, and dust with a trifle of cayenne with new if you want the young tree to pepper. Make enough cold tartar sauce to mask the cod roes, and serve with chopped lettuce, mustard and cress, or watercress.

Boils and Pimples and other affections arising from impure blood may appear at this season, when the blood is heated. Hood's Sar-saparilla removes the cause of theme troubles by purifying, vitalizing, and enriching the blood, and at the same time it gives strength to ing the the whole system.

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then add it to the stock, and season with salt and pepper; let it boil up once; add the heaten yelks, of two .eggs and serve.

BROILED SALT MACKEREL .- Select a small mackerel (which will be more tender than a large, older one) and put in to soak over night in plenty of cold water; pour off the water and let it stand in milk two hours; then drain and dry in a napkin, brush butter, or, better still, pure olive oil over it, and boil in a double-wire broller; when done plunge it into hot water a moment, which swells it and makes it look fat; serve with melted butter containing lemon juice and chopped parsley.

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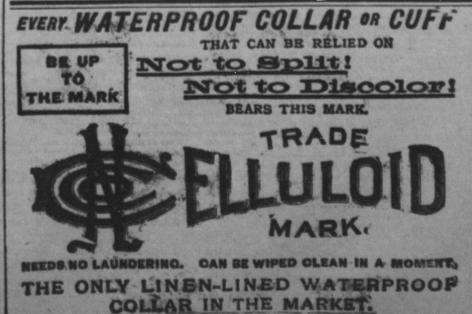
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